

## ABSTRACT

An error signal generation system and method for continuous and accurate positioning of  
5 a tunable element used in association with a coherent light source. A tunable element is positioned in a coherent light beam with a fixed frequency or wavelength,, and a detector is positioned in association with the light beam and tunable element that is capable of generating an error signal indicative of spatial losses associated with the positioning of the tunable element in the light beam. A tuning assembly is operatively coupled to the  
10 tunable element and detector and is configured to position the tunable element according to the error signal generated by the detector.

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